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| APPLICATION NO. | FILING DATE | FIRST NAMED INVENTOR | ATTORNEY DOCKET NO. | CONFIRMATION NO. |
|---|---------------------|----------------------|---------------------|------------------|
| 10/567,326 | 02/07/2006 | Shoji Sekino | NEC NE70217 | 6649 |
| 27667 7590 02/17/2011 HAYES SOLOWAY P.C. | | | EXAMINER | |
| 3450 E. SUNR | ISE DRIVE, SUITE 14 | ENIN-OKUT, EDUE | | |
| TUCSON, AZ 85718 | | | ART UNIT | PAPER NUMBER |
| | | | 1727 | |
| | | | | |
| | | | NOTIFICATION DATE | DELIVERY MODE |
| | | | 02/17/2011 | ELECTRONIC |

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

Notice of the Office communication was sent electronically on above-indicated "Notification Date" to the following e-mail address(es):

admin@hayes-soloway.com smckniff@hayes-soloway.com nsoloway@hayes-soloway.com

Office Action Summary

| Application No. | Applicant(s) | | | |
|------------------|---------------|--|--|--|
| 10/567,326 | SEKINO ET AL. | | | |
| Examiner | Art Unit | | | |
| Edu E. Enin-Okut | 1727 | | | |

| | Edu E. Enin-Okut | 1/2/ | | |
|--|--|--|-----------|--|
| The MAILING DATE of this communication appr Period for Reply | ears on the cover sheet with the o | orrespondence ad | dress | |
| A SHORTENED STATUTORY PERIOD FOR REPLY WHICHEVER IS LONGER, FROM THE MAILING DA - Extensions of time may be available under the provisions of 37 OFR 1.13 after SIX (1) MONITYS from the making date of this communication. - Fallur to reply within the act or extended position for reply will, by attailute, Any reply received by the Offico later than three months after the mailing aemed patent term adjustment. See 37 OFR 1.704(b). | TE OF THIS COMMUNICATION (6(a). In no event, however, may a reply be tir- ill apply and will expire SIX (6) MONTHS from cause the application to become ABANDONE | N. nely filed the mailing date of this co ED (35 U.S.C. § 133). | | |
| Status | | | | |
| 1) Responsive to communication(s) filed on <u>08 Ju</u> | <u>ne 2010</u> . | | | |
| 2a) This action is FINAL . 2b) ☑ This | action is non-final. | | | |
| Since this application is in condition for allowan | ce except for formal matters, pro | secution as to the | merits is | |
| closed in accordance with the practice under E. | x parte Quayle, 1935 C.D. 11, 4 | 53 O.G. 213. | | |
| Disposition of Claims | | | | |
| 4) Claim(s) 1.3,4 and 6-12 is/are pending in the ap | oplication. | | | |
| 4a) Of the above claim(s) is/are withdraw | n from consideration. | | | |
| 5) Claim(s) is/are allowed. | | | | |
| 6) Claim(s) 1.3.4 and 6-12 is/are rejected. | | | | |
| 7) Claim(s) is/are objected to. | | | | |
| 8) Claim(s) are subject to restriction and/or | election requirement. | | | |
| Application Papers | | | | |
| 9) ☐ The specification is objected to by the Examiner | t. | | | |
| 10) The drawing(s) filed on is/are: a) acce | | Examiner. | | |
| Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a). | | | | |
| Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d). | | | | |
| 11) The oath or declaration is objected to by the Exa | | - | | |
| Priority under 35 U.S.C. § 119 | | | | |
| 12) Acknowledgment is made of a claim for foreign | priority under 35 U.S.C. § 119(a |)-(d) or (f). | | |
| a) All b) Some * c) None of: | have been seed to d | | | |
| Certified copies of the priority documents | | | | |
| Certified copies of the priority documents | | | 01 | |
| Copies of the certified copies of the priori | • | ed in this National | Stage | |
| application from the International Bureau | | | | |
| * See the attached detailed Office action for a list of | or the certified copies not receive | €0. | | |
| | | | | |
| AMb | | | | |
| Attachment(s) | 4) Intension Summary | (PTO-413) | | |

| Notice of References Cited (PTO-892) | 4) Interview Summary (PTO-413) |
|--|---|
| Notice of Draftsporson's Fatent Drawing Review (FTO-942) | Paper No(s //Mail Date. |
| Information Disclosure Statement(s) (PTO/SB/08) | Notice of Informal Patent Application |
| Paper No(s)/Mail Date 12/3/2010. | 6) Other: |

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FUEL SUPPLY UNIT FOR FUEL CELL AND FUEL CELL USING SAME

Continued Examination Under 37 CFR 1.114

 A request for continued examination under 37 CFR 1.114, including the fee set forth in 37 CFR 1.17(e), was filed in this application after final rejection. Since this application is eligible for continued examination under 37 CFR 1.114, and the fee set forth in 37 CFR 1.17(e) has been timely paid, the finality of the previous Office action has been withdrawn pursuant to 37 CFR 1.114. Applicant's submission filed on June 8, 2010 has been entered. Applicant has

amended claim 1. Claims 1 and 3, 4, and 6-12 are pending.

The text of those sections of Title 35, U.S. Code not included in this action can be found in a prior Office action.

Claim Rejections - 35 USC § 112

The following is a quotation of the first paragraph of 35 U.S.C. 112:

The specification shall contain a written description of the invention, and of the manner and process of making and using it, in such full, clear, concise, and exact terms as to enable any person skilled in the art to which it pertains, or with which it is most nearly connected, to make and use the same and shall set forth the best mode contemplated by the inventor of carrying out his invention.

4. Claims 1, 3, 4, and 6-12 are rejected under 35 U.S.C. 112, first paragraph, as failing to comply with the written description requirement. The claim(s) contains subject matter which was not described in the specification in such a way as to reasonably convey to one skilled in the relevant art that the inventor(s), at the time the application was filed, had possession of the claimed invention.

Regarding claims 1, 3, 4, and 6-12, claim 1 recites "... the concentration in the liquid fuel in the fuel vessel is adjusted to power generation ... ". Although applicant has cited a number of

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sections of the originally filed specification as support for the amendments made to the claims, none of those sections appear to support this recitation. (Claims 3, 4, and 6-12 depend upon claim 1.)

5. The following is a quotation of the second paragraph of 35 U.S.C. 112:

The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.

Claims 1, 3, 4, and 6-12 are rejected under 35 U.S.C. 112, second paragraph, as being
indefinite for failing to particularly point out and distinctly claim the subject matter which
applicant regards as the invention.

Regarding claims 1, 3, 4, and 6-12, claim 1 recites the limitations "the constituent of the fuel" and "the supplementary liquid". There is insufficient antecedent basis for these limitations in the claim. (Examiner's Note: For purposes of examination, it is assumed that this phrase is —the supplementary liquid fuel —.) Further, claim 1 recites "... the supplementary liquid [fuel (see assumption described above)] is more concentrated than the liquid fuel in the fuel vessel." However, prior to this recitation, the claim also recites that "... a supplementary liquid fuel contained in said fuel vessel ...". It is unclear how the supplementary liquid [fuel] can have a concentration higher than that in fuel vessel when the supplementary liquid fuel is the fuel in the fuel vessel. (Claims 3, 4, and 6-12 depend upon claim 1.)

Claim Rejections - 35 USC § 103

 The rejection of claims 1, 3, 4 and 6-12 under 35 U.S.C. 103(a) as being unpatentable over Hirsch et al. (US 2004/0209133) is withdrawn because claim 1 was amended. Art Unit: 1727

Response to Arguments

8. Applicant's arguments filed on February 10, 2011 have been considered, but applicant

has amended the claims such that new grounds of rejection were necessitated.

Contact Information

Any inquiry concerning this communication or earlier communications from the examiner

should be directed to Edu E. Enin-Okut whose telephone number is 571-270-3075. The

examiner can normally be reached on Monday to Thursday, 7 a.m. - 3 p.m. (EST).

If attempts to reach the examiner by telephone are unsuccessful, the examiner's

supervisor, Dah-Wei Yuan can be reached on 571-272-1295. The fax phone number for the

organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent

Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished

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would like assistance from a USPTO Customer Service Representative or access to the

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automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/Edu E Enin-Okut/ Examiner, Art Unit 1727

/Dah-Wei D. Yuan/

Supervisory Patent Examiner, Art Unit 1727